

ABSTRACT OF THE DISCLOSURE

The present invention relates to a topical cosmetic composition that has improved non-oily feel comprising: (a) a hybrid silicone composite powder having a spherical shape with 5 particle diameter ranging from 2 to 10 μm , of which each particle has a composite structures consisting of two interpenetrating polymer networks of polydimethylsiloxane (PMS) and polymethylsilsesquioxane (PMSQ). These two interpenetrating polymer networks are joined together by physical entanglements 10 instead of chemical bonds; (b) a volatile cosmetic fluid; (c) a silicone fluid with viscosity ranging from 2 to 350 cSt; (d) an oil base consisting of an oil, wax, oil gelling agent or the mixture thereof; (e) a surface active agent; (f) a cosmetic pigment; and (g) an optional aqueous gel containing glycerin, 15 glyccols and an aqueous thickening agent. The cosmetic composition provides an improved skin sensory feel and a superior matte finish, and is useful for skin treatment, makeup and personal hygiene products.

SUBSTITUTE SPECIFICATION



condensation of methyltrimethoxysilane to form PMSQ network

within the PMS network rubber particles. After diluting with 50 parts of water and homogenizing, the dispersion was dried with a spray dryer to yield the hybrid silicone composite powder having 5 a spherical shape with particle diameter ranging from 2 to 10 μm as measured by scanning electronic microscope.

In Example 1 the PMSQ Network and the PMS Network have the following structural formulae

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 shows the reaction scheme for preparing the polydimethylsiloxane (PMS) network by reacting a vinylsilicone having a molecular weight of 1000 to 10,000 with a methylhydrogensilicone having a molecular weight ~~between~~ 1000 to 10,000, in the presence of a platinum catalyst.

Figure 2 shows the reaction scheme for preparing the polydimethylsiloxane (PMSQ) by reacting methyltrimethoxysilane with an aqueous solution of ammonia to undergo condensation reaction.